

WHAT IS CLAIMED IS:

1. A type II restriction endonuclease, wherein the enzyme comprising amino acid sequence of SEQ ID No: 3, and the type II restriction endonuclease recognizing and cutting DNA only at a particular sequence of nucleotides.
2. The type II restriction endonuclease according to claim 1, wherein the DNA is from bioorganism.
3. The type II restriction endonuclease according to claim 1, wherein the DNA is manually synthesized.
4. The type II restriction endonuclease according to claim 1, wherein the particular sequence comprising the sequence 5'-CCATC-3' as shown by SEQ ID NO : 1.
5. The type II restriction endonuclease according to claim 4, wherein the type II restriction endonuclease cleaves DNA downstream of said DNA sequence of nucleotides at the fourth base in the upper strand and the fifth base in the lower strand of SEQ ID NO : 1.
6. The type II restriction endonuclease according to claim 1, wherein the type II restriction endonuclease is an enzyme derived from microorganism.
7. The type II restriction endonuclease according to claim 6, wherein the microorganism are *Helicobacter pylori*.
8. An isolated nucleic acid encoding a type II restriction endonuclease according to claim 1.
9. The isolated nucleic acid according to claim 8, wherein the nucleic acid sequence having the sequence of SEQ ID NO : 2.
10. The isolated nucleic acid according to claim 9, wherein the nucleic acid is originated from *Helicobacter pylori*.
11. A vector comprising the nucleic acid according to claim 8.
12. A transformed cell comprising a vector according to claim 11.

13. A recombinant enzyme specifically recognizing DNA at a particular sequence of nucleotides and cleaves DNA downstream of the DNA sequence of nucleotides at the fourth base in the upper strand and the fifth base in the lower strand, and the recombinant enzyme composing the amino acid sequence of SEQ ID NO : 3.